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# Penta Security 3rd Generation Web Application Firewall No Signature Required



[www.gasystems.com.au](http://www.gasystems.com.au)

iTrust



**NetQoS.**  
Performance Experts

**Mobile Iron®**

NETWORK ACCESS  
CONTROL  
BYOD

**ForeScout**

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WEB  
APPLICATION  
FIREWALLS

APPLICATION  
PERFORMANCE  
MANAGEMENT

SIEM 2.0  
Log  
Management

**GAS**  
Global Asset Systems

DATABASE  
ENCRYPTION



**LogRhythm®**  
COMPLY. SECURE. OPTIMIZE.

ENTERPRISE  
APPLICATION  
FIREWALLS

**paloalto**  
NETWORKS

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# The Web Presence Demand

## The Web Still Grows

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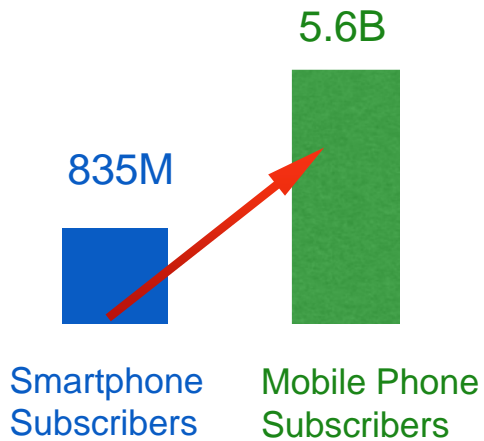
### INTERNET USERS

2006 1.2B Internet Users  
- 18% of 6.5B people

2011 2.4B Internet Users  
- 35% of 7B people

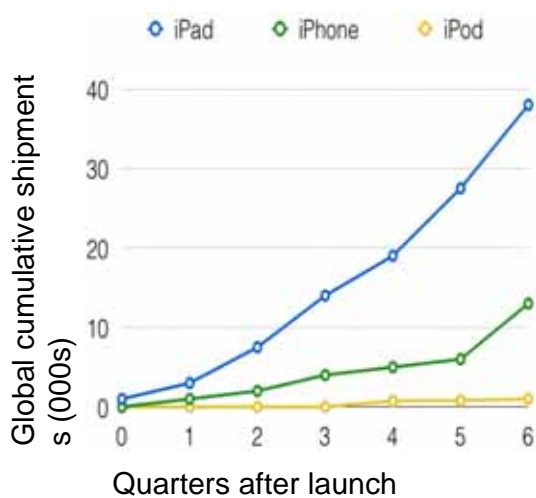


## Huge scope for the mobile web



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## The Appetite for Tablets



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# The Need for Effective Web Application Security



**75%** of ALL threats target  
the Web Application layer

Gartner

**93%** of organizations  
hacked in the past two years  
were breached via insecure  
web applications

**88%** of companies spend  
more on coffee than on web  
application security.

# Cloud Computing Risks

ITrust



## The Criminal Cloud

Criminals are using cloud computing to where information and to supercharge their hacking capabilities.

by [Name] | 10 January 2010

The cloud opens a world of possibilities for criminal computing. Unlike the private computers and networks that have been the mainstay of computer crime for the past decade, cloud computing makes available a vast, managed, scalable, scalable global infrastructure that

is, unfortunately, almost as well suited to illicit computing needs as it is to legitimate business. The mass of information stored in the cloud—everything from data, from credit card and Social Security numbers—makes it an attractive target for data thieves. Not only is more data centralized, but for the security experts and law enforcement agencies trying to make the cloud safe, the very nature of the cloud makes it difficult to catch intruders. Despite a virtual Cloud Criminal Hub, where it's easy to find all sorts of tools to help a hacker or other security professional, the cloud is still a risk.

Think of it: the cloud also increases computing power at the disposal of many groups, criminals included. Cloud providers have grown to rely on cloud computing technology, and emergency communication channels that make it hard for law enforcement to be involved in or intervene in activities. The cloud is a place that criminals are moving. The ability to rapidly scale up and shut down computing resources in the cloud greatly increases the chances that there will be any clues left for forensic analysis.

More Available in Enterprise

Source:

".... cloud computing makes available a well-managed, reliable, scalable global infrastructure that is, unfortunately, almost as well suited to illicit computing needs as it is to legitimate business."

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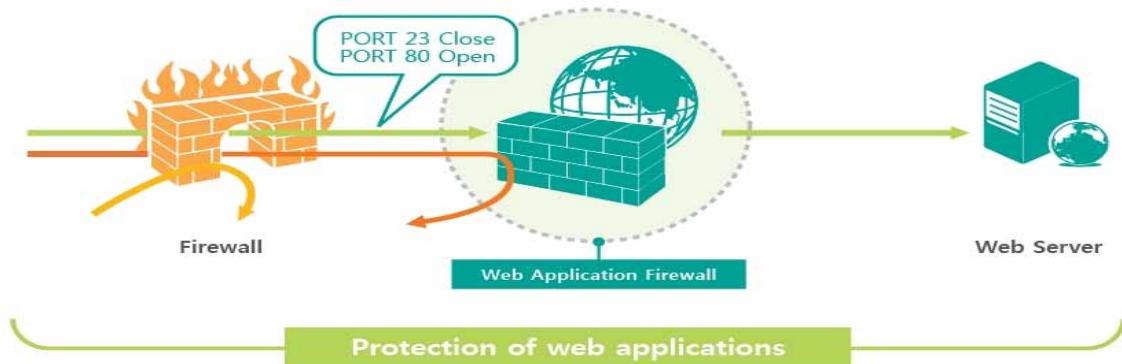
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## The Protection: Web Application Firewall





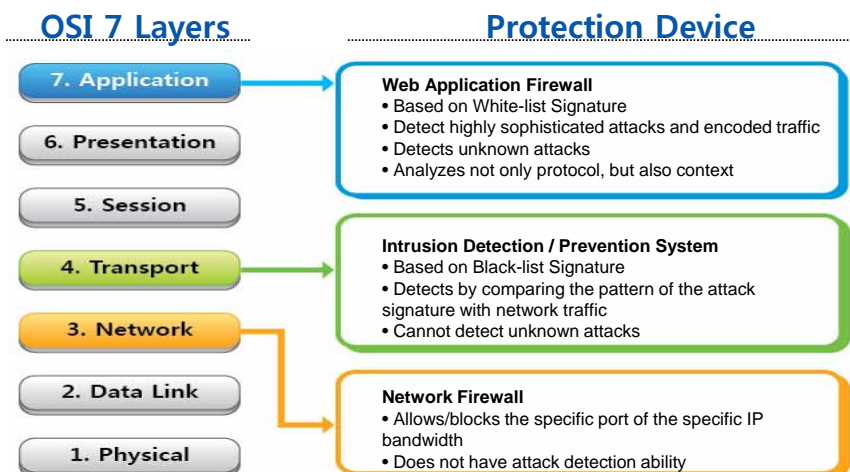
# Web Application Firewalls



- Protects against web attacks
- Prevents leakage of personal, confidential, and/or proprietary information
- Enables regulatory compliance

# Network Firewall, IDS/IPS, or WAF

WAFs protect the OSI 7 (Application) Layer





OWASP Top 10 (2010)	Network Firewall	IDS / IPS	WAF
A1: SQL Injection	X	△	√
A2: Cross Site Scripting (XSS)	X	△	√
A3: Broken Authentication and Session Management	X	△	√
A4: Insecure Direct Object References	X	X	√
A5: Cross Site Request Forgery (CSRF)	X	X	√
A6: Security Misconfiguration	X	X	√
A7: Failure to Restrict URL Access	X	X	√
A8: Insecure Cryptographic Storage	X	X	√
A9: Insufficient Transport Layer Protection	X	√	√
A10: Unvalidated Redirects and Forwards	X	X	√

**WAF is only solution to protect against OWASP Top 10 Threats**

## WAF delivers compliance

**Payment Card Industry Data Security Standard**



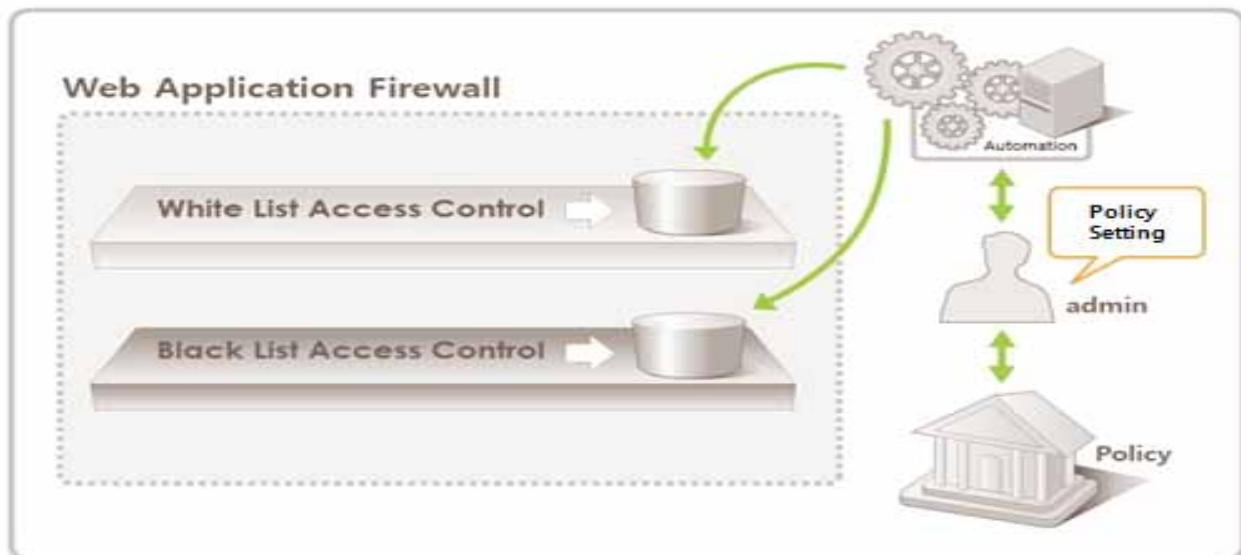
**Attorney General for Australia May 2 2012**

“Australia’s privacy laws will be reformed to better protect people’s personal information, simplify credit reporting arrangements and give new enforcement powers ... The changes will be introduced into the Parliament in the winter sitting period.”



## First Generation WAF

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## Analysts Agree

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"There is widespread agreement that advanced attacks are bypassing our traditional signature-based security controls and persisting undetected on our systems for extended periods of time. The threat is real."

"You are compromised; you just don't know it ! "

Gartner Inc 2012

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# Introducing WAPPLES

## The Intelligent Web Application Firewall

### 3<sup>rd</sup> Generation WAF



## Introducing Innovation from Korea

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South Korea 48M people : 85% homes 1G bb : 91% people mbb



\$220 B revenues  
29.1 % smartphone market  
24.2% apple IDC 2012

### Korea's Most Innovative Security Vendor

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No. 1 Web Application Firewall Vendor in Korea (WAPPLES)

No. 1 Database Encryption Solution Vendor in Korea (D'Amo)



WAPPLES





# Comprehensive Management

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## Implementations



## WAPPLES Success Stories

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### Problems Facing the Bank of Korea:

Maintain Highest Levels of Security and Availability  
 Concerned with SQL injection risks – known and unknown  
 Website defacement – Warfare Target  
 Existing pattern matching IPS/IDS was ineffective & labor intensive

***“Our existing solution required so much work due to pattern management. WAPPLES has substantially reduced my workload while simultaneously increasing web application security.”***

BuKang Kim, IT Security , The Bank of Korea



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## WAPPLES Success Stories

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### Problems Solved

- Needed a secure, reliable, easy-to-use, and cost-efficient system to protect their web applications and web servers against known and newly evolving cyber attacks.
- Concerned specifically with preventing the leakage of private information, including credit card numbers and social security numbers.
- Support for multiple security policies.
- Protection of private information of clients and partners
- Proactive detection and blocking of known and unknown attacks.

### WHY WAPPLES

- high success rate for identifying and blocking known, modified, and previously unknown attacks
- low rate of false positives, and low administrative overhead,
- Ease of management and the ability to create an unlimited number of security policies

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# WAPPLES Success Stories

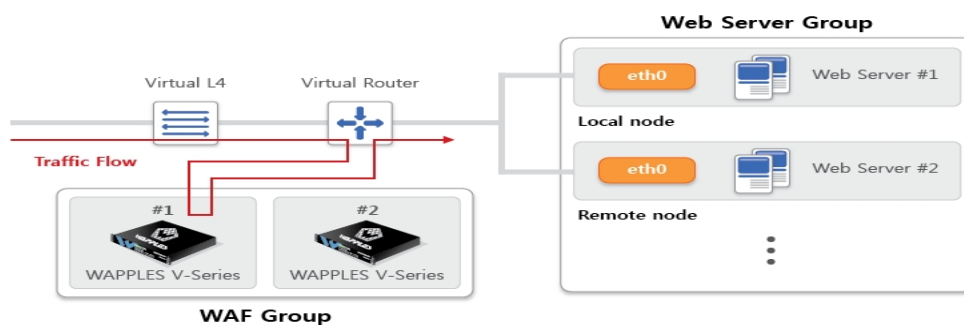


Korean telecommunications giant KT

Web security is number one priority for KT business customers

WAPPLES Virtualised Solution launched by KT as add-on service for cloud customers

Delivers reliable, affordable, easy-to-use, cloud-based web application security



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